AWIPS SYSTEM MODIFICATION NOTE 9, Rev A (for Electronic Systems Analysts)
Maintenance Logistics & Acquisition Division
W/OPS1: FJZ

SUBJECT   **:** AWIPS Archive Server Installation Procedure

PURPOSE   **:** To provide Archive Server hardware and software installation
                               instructions.

AUTHORIZATION   **:** The authority for this patch modification note is Request for Change
                               AA873

EQUIPMENT   **:** Advanced Weather Interactive Processing System (AWIPS) AS1 rack.
AFFECTED

SITES AFFECTED   **:** All AWIPS sites.

PARTS   **:** Two 3.5-inch, 1.4Mb, floppy disks. The remaining parts are shipped by
REQUIRED   Northrop Grumman Information Technology, Inc (NGIT) and IBM. See
                               parts list in Introduction.

MODIFICATION   **:** None
PROCUREMENT

TOOLS REQUIRED   **:** Standard site tool kit. Xyplex tool, VGA monitor, mouse, and keyboard.

TEST EQUIPMENT   **:** None
REQUIRED

EFFECT ON OTHER: None. File this note in EHB-13, Series II, section 5.1.
INSTRUCTIONS

VERIFICATION   **:** This modification was tested at the National Weather Service
STATEMENT   Headquarters NMTW, Silver Spring, MD (SLVM2).

TIME REQUIRED   Approximately 2 hours for hardware installation, 4 hours for software.

TECHNICAL   **:** For questions or problems regarding these installation instructions
SUPPORT   please contact the NCF at 301-713-9344**.**

NOTE: **Installation Guidelines**

- ESAs are asked to schedule the Archive Server (AX) installations with their AWIPS regional focal points.

- AWIPS regional focal points, please adhere to the following scheduling guidelines:

  ► First day to schedule for installation: December 16, 2002 (maximum 5 sites per day).

  ► Continue installation to December 19, 2002 (maximum 5 sites per day)

  ► Christmas break: December 23, 2002, to January 2, 2003 (no installs).

  ► Continue schedule installation January 6, 2003, through January 31, 2003 (maximum 7 sites per day).

- AWIPS regional focal points are asked to coordinate the AX installation using Netscape calendar set aside for AWIPS software upgrades The attached document provides instructions on how to access:

  http://calendar.netscape.com

- NCF/NGIT upgrade support is available from 7AM to 7PM EDT, Monday through Thursday.

- OCONUS sites requiring installation assistance outside the set support hours on Thursdays must coordinate with the NCF a day in advance.

- A maximum number of 5 sites per day will be upgraded in the AWIPS time-frame of December 16, 2002, through December 19, 2002. A maximum number of 7 sites per day will be upgraded from January 6, 2003 through January 31, 2002.

- Review the complete modification note before performing the installation.

- If any of the installation instructions require further clarification, call the NCF.

- Sites must coordinate the AX installation with their regional or NCEP Center AWIPS focal point. COMT, the Training Center, systems at WSH, and the OSF should schedule their upgrade with franz.zichy@noaa.gov at WSH or schedule themselves using the calendar feature on Netscape set aside for AWIPS software upgrades.

INTRODUCTION

Call the NCF before performing these instructions. Read each step **thoroughly** before performing a procedure.

NOTE: Before installing the Archive server ensure the following prerequisites are completed:

1. R5.2.2 **must** be installed to perform this installation.

2. R5.2.2.1 **must** be installed if PXs are installed.

Verify all material shipped from IBM and NGIT is on site and ready for installation.

1. Material obtained by site:

    Two 3.5-inch, 1.4Mb, floppy disks.

2. Material shipped by IBM:

    xSeries 342 server

3. Material shipped by NGIT:

Part No.	Description	Qty.
NWS5134	100BaseT 5 Port Switch (Netgear FS105)	1
NWS5261	Cable, Patch, 4-Pair RJ45-RJ45 Cat 5e w/hood, 5 ft	2
NWS5262	Cable, Solid, 4-Pair RJ45-RJ45 Cat 5e w/hood, 25 ft Plenum	1
NWS4072	Cable, Sol Cnsl,4-Pair DB9F-RJ45 Cat 5, 5ft Plen	1
NWS5260	Horizontal Rack Power Strip - 12 Outlet (TrippLite RS-1215)	2
NWS3190	Blank Panel - Formed, 1.75 Inch (Bud P/N 44829)	1
NWS3814	Vertical Mounting Rails (Bud P/N 447002)	1 pair
N/A	Rack Screws and Capture Nuts	1 lot
NWS5309	Archiver Software CD-2453	1
N/A	Blank Media, CD-RW	2 discs
N/A	Blank Media, DVD-R	4 discs

PROCEDURE

A. AS1 Rack Preparation Procedure

1. Remove the blank panel from above SwPnl3.

2. Remove the power strips (and mounting hardware) from the rack and lay them aside. Except for the fan, **do not** unplug any of the devices from the power strips.

3. Install new capture nuts over the 5th hole (approximately 2-inches) from the rear of the rack, along the top rail of the center side brace and top rail of the top side brace (figure 1). It may be necessary to cut the tie wraps of any cables (such as the fan power cord) that may interfere with installation of the rails.

4. Mount the new set of vertical mounting rails (provided) to the rack side braces with the threaded mounting flange facing rearward. Install the rail with the single slot on bottom (figure 1 and 2) Before tightening the mounting screws, slide the vertical rails as far back in the rack as the adjustment slots allow.

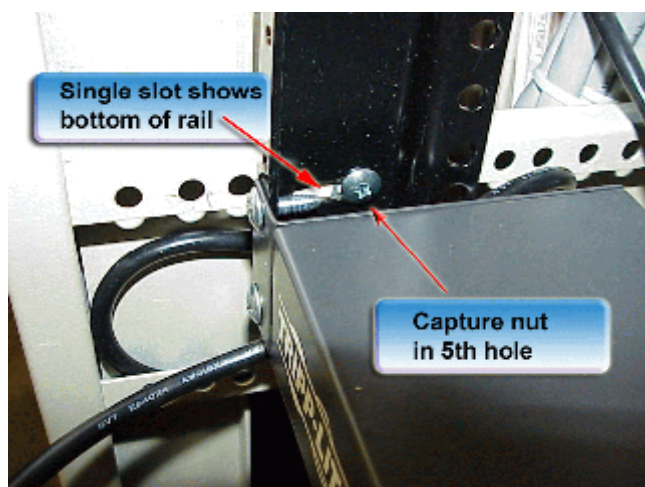This completes the AS1 rack preparation procedure
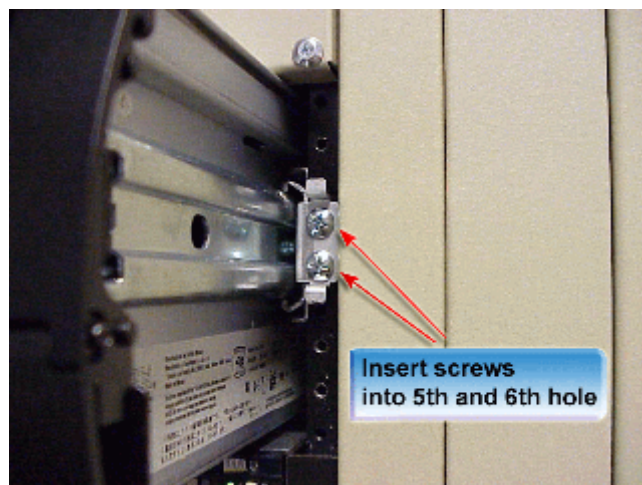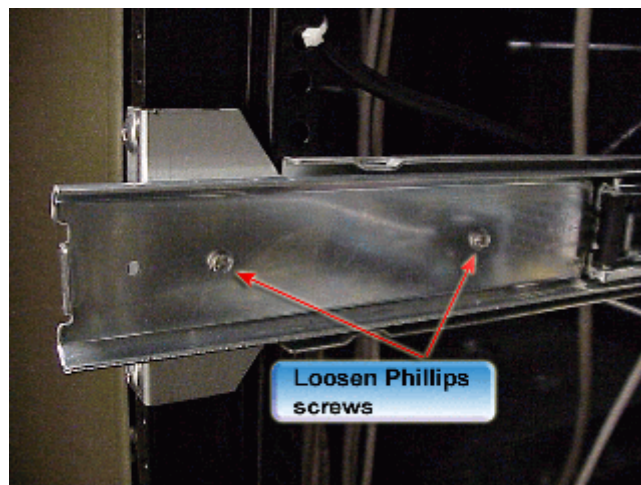

Figure 1

Figure 2

B. Archive Server Installation Procedure

> **NOTE:** The CD drive in the Archive Server has been intentionally disabled. Label the drive as "Non-Operation Drive." **DO NOT CALL** the NCF to report an inoperative CD drive.

1. Attach the Archive Server rack mount kit to the 37th and 38th hole (approximately 22 inches) from the top of the front vertical rails (Insert screws in the 5th and 6th holes above SwPnl3). Do not fully tighten the screws at this time (figure 3).

> **NOTE:** The slide rails are identical. It does not matter which one is mounted on the left or the right side of the rack.

2. Partially extend the Archive Server (AX) slide rails and loosen the two phillips-head screws on the inside on the backside of the slide rail (figure 4). Adjust the (slide rail) rear-mounting flange and attach it to the 35th and 40th hole from the top (or 21st and 26th holes from the bottom) of the (newly installed) rear vertical rails.

3. Push up on the front mounting plates of the slide rails and tighten the screws.

4. Re-tighten the phillips-head screws loosened in step 2.

5. Fully extend the slide rails until they securely latch in the extended position.

Insert screws into 5th and 6th hole

Figure 3

Loosen Phillips screws

Figure 4

EHB-13, Ser II
Issuance 03-03
1/21/03

6. Using 2 people, lift the AX onto the slide rails. Rest the server on the "blue" rack-support wheels with the front of the slide rails touching the server's face plate. Attach the server to the slide rails with the screws provided in the rack mount kit (Part Number 79F3333). There are three arrows on each side of the server indicating the positions of the screw holes. Remove the rack-support wheels from the server, place them in the plastic baggy provided [Part Number 00N9172 (figure 6)] and store the baggy in the rack (reinstallation of these wheels is necessary if the server is removed from the slide rails).

7. Depress the slide rail tabs and slide the AX chassis fully into the rack, being careful not to bind or pinch any existing cables. It may be necessary to adjust the position of existing cables. Secure the server by installing rack-mount screws in the upper corners of the front panel.

This completes the Archive Server Installation Procedure

C. Archive Server Cable Routing Procedure

1. Stack the 10/100BaseT 5-Port Switch (AX/SW) in the DS2 cabinet on the shelf next to the Autoloader (figure 7). Plug the power supply of AX/SW into the fifth outlet from the top of the left power strip.

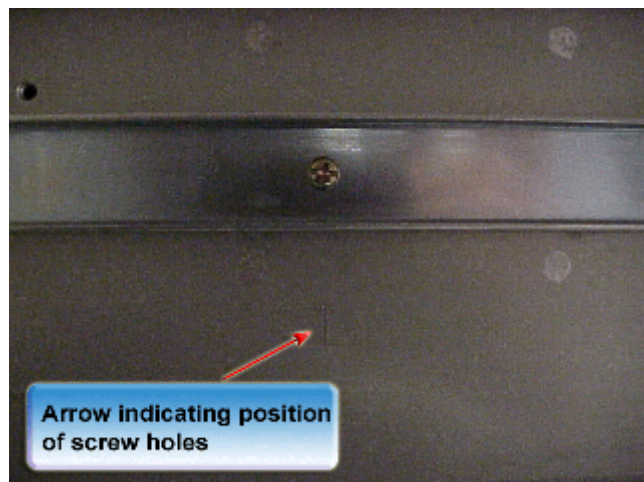2. Route the LA1CW120 cable (NWS5262) between the AS1 and DS2 rack.

Figure 5

Figure 6

Figure 7

3. Rout the LA1CW121 and LA1CW122 cables (NWS5261) between the DS1 and DS2 rack.

4. In the DS2 rack, connect LA1CW120 cable (NWS5262) to port 4 of AX/SW.

5. In the AS1 rack, connect LA1CW120 cable (NWS5262) to the 100-Mb LAN interface on the Archive Server. This is the interface next to the Mouse and Keyboard ports (figure 8).

6. In the DS2 rack, connect LA1CW121 and LA1CW122 cables (NWS5261) to ports 1 and 2 of AX/SW.

7. In the DS1 rack, connect LA1CW121 and LA1CW122 cables (NWS5261) to ports 23 of HSL/SW 1 and 2.

8. Route LA1CW123 (NWS4072) between Xyplex port 7 and serial port A (the top serial port) on the AX (figure 9).

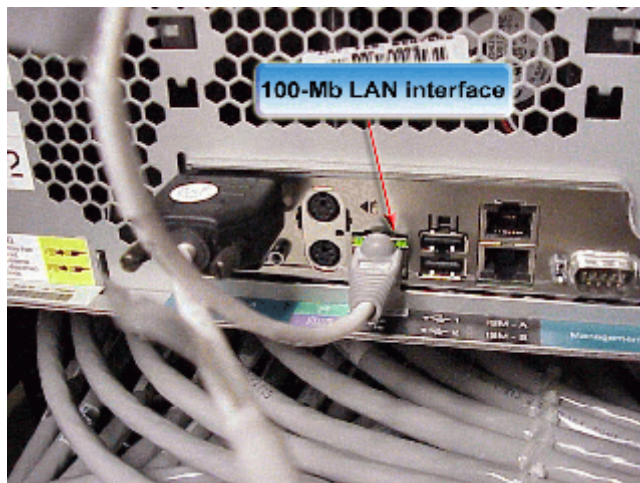This completes the Archive Server Cable Routing Procedure
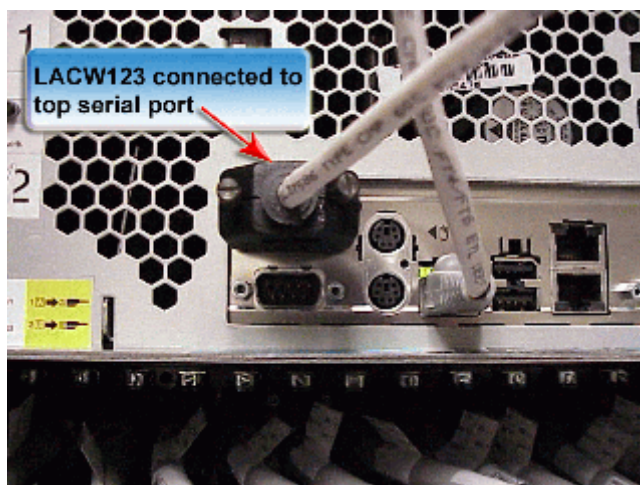

Figure 8

Figure 9

D. **Archive Server Power Up Procedure**

1. From a workstation, log in to AS1 as **root** to fail the as1swap package over to AS2. Use the following procedure to move AS1 swap package to AS2 prior to powering down AS1.

   a. Halt the package by typing the commands below. Verify all AS1 processes are stopped before moving on to the next step.

      cmhaltpkg as1swap
      ps -ef | grep fxa

   b. Move the package over to as2-*<siteID>* by typing:

      cmrunpkg -n as2-*<siteID>* as1swap

   c. Monitor the as1swap.control.log file and watch for any errors. On as2-*<siteID>*, type:

      tail -f /etc/cmcluster/as1swap/as1swap.control.log

   d. Ensure all processes are running. Table 4.7.1-1, Server Processes, and Table 18.1-1, Server Processes, in the Release 5.2.2 AWIPS SMM provides a list of which processes run on each server.

   e. Locate VIR switch 3 in the as1 rack immediately above as1. Ensure the lights above each of the slots are on the "B" side. If one or more slots are still on the "A" side, press the white button above each of the affected slot(s) until they are on the "B" side. If all the slots are still on the "A" side, press the white button on the ITM-53 card at the far left of the unit until all the slots have switched to the "B" side. If problems occur switching the slots to the "B" position, contact the NCF. The inability to switch to the "B" side will prevent proper function of the asynchronous multiplexer while the as1 swap package resides on as2.

   f. Perform an orderly shutdown of AS1 by typing:

      /etc/shutdown -h 0

   g. Once the LCD located on the face of as1 shows "SHUT", place the ON/OFF switch in the OFF position for a total server shutdown.

2. Install horizontal power strip #1 at the top of the upper rear rail.

3. Install the second horizontal power strip #2 at the bottom of the upper rear rail.

NOTE: If the circuit for DS1 rack is terminated in a "quad box" plug the new power strips into the open outlets. The existing power strips can be permanently removed at the completion of step 15.

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4. Plug the Archive Server power cord into receptacle one (counting from left to right) of power strip #1.

5. Plug the fan into receptacle six of power strip #1.

6. Unplug the Xyplex from the left vertical power strip and plug it into receptacle two on power strip #1.

7. Unplug MDP2-1 from the left vertical power strip and plug it into receptacle three on power strip #1.

8. Move the PHUB-AS power supply from the left vertical power strip to the right vertical power strip. If the note after step 2 is applicable, plug the PHUB-AS power supply into receptacle 2 of power strip #2 and skip step 13.

9. Disconnect the left vertical power strip from the under-floor circuit box.

10. If power strip #1 is not already plugged into the DS1 rack circuit breaker, plug power strip #1 into the outlet from which the left vertical power strip was removed. Open the switch cover door of power strip #1 and toggle the switch to the ON position. Close the switch cover door.

11. When AS1 is shut down, unplug it from the vertical power strip and plug it into receptacle one of horizontal power strip #2.

12. Unplug SwPnl3 from the right vertical power strip and plug it into receptacle six of power strip #2.

13. If PHUB-AS is already plugged into power strip #2, skip this step. Otherwise, unplug the PHUB-AS power supply from the right vertical power strip and plug it into receptacle two of power strip #2.

14. Unplug MDP1-1 from the right vertical power strip and plug it into receptacle 5 of power strip #2.

15. Disconnect the right vertical power strip from the under-floor circuit box. If power strip #2 is not already plugged into the circuit for Rack 3, plug power strip #2 into the outlet that the right vertical power strip was removed from. Open the switch cover door of power strip #2 and toggle the switch on. Close the switch cover door.

16. Before turning on the device, use the sytem concole, and connect to AS1. Place the ON/OFF switch in the ON position to power up the server. Observe the boot process and wait until the login prompt appears before continuing

17. From a workstation, log in to AS2 as **root** and fail the swap package back to AS1 by performing the following procedure:

    a. Halt the as1swap package on `as2-<siteID>` by typing

       cmhaltpkg as1swap
       cmviewcl

       Verify the `as1swap` package status is "down" and state is "halted."

    b. Move the package back over to AS1 by typing:

       cmrungpkg -n as1-<siteID> as1swap

    c. Monitor the `as1swap.control.log` on AS1 and watch for any errors. Verify the package is running on AS1. Ensure all of the processes are running; on `as1-<siteID>`, as **root**, type:

       tail -f /etc/cmcluster/as1swap/as1swap.control.log

NOTE: If the message `package swap completed` does not appear, the swap process may be hung. If this happens, run the following commands from `as1-<siteID>`:

        ps -ef | grep fxa

        Look for the `fxaAnnounce` PID

        kill -9 <fxaAnnounce PID>

        The swap should no longer hang and should complete normally.

---

    d. Verify the `as1swap` package is running on AS1 by typing:

        cmviewcl

        Use Table 4.7.1-1 or 18.1-1, Server Processes, from the Release 5.2.2 SMM to verify all AS1 Processes are running on AS1 and no AS1 processes continue to run on AS2. Use the UNIX **kill** command to kill any AS1 processes that continue to run on AS2.

    e. Enable automatic swapping of the `as1swap` package by typing:

        cmmodpkg -e as1swap

NOTE: After every automatic or manual failover, the following events take place:

    1.   The MC/ServiceGuard package will swap to the failover node.

    2.   Each user running the D2D application at the failover site will be notified by a pop-up dialog box when the swap is in progress and when the swap has completed.

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18. Locate VIR switch 3 in the as1 rack immediately above as1. Ensure the lights above each of the slots are on the "A" side. If one or more slots are still on the "B" side, press the white button above each of the affected slot(s) until they are on the "A" side. If all the slots are still on the "B" side, press white button on the ITM-53 card at the far left of the unit until all the slots have switched to the "A" side. If problems occur switching the slots to the "A" position, contact the NCF. The inability to switch to the "A" side will prevent proper function of the asynchronous multiplexer after the as1 swap package is returned to as1.

19. After AS1 has been returned to operation, configure Xyplex port 7 for the Archive Server. You will need access to the Xyplex card on the front of the Xyplex. Tools required: Xyplex tool (a.k.a. paperclip)

20. Quit to the Xyplex> prompt and issue the following commands:

```
Xyplex> set priv system
Xyplex>> def port 7 from port 1
Xyplex>> def port 7 telnet remote port 2700
```

21. Wait for the Console light on the front of the Xyplex to stop flashing, then issue the following command:

```
Xyplex>> init delay 0
```

22. Once the Xyplex has rebooted, log into the Xyplex and connect to the AX console by issuing the following command:

```
Xyplex> con xyplex1:2700
```

> **NOTE:**   Console access to the AX will fail because the AX has not been booted and configured. However, the Xyplex console should indicate the connection has been established.

23. After the Console and Card lights on the front of the Xyplex have stopped flashing, pull the Xyplex card out of the front of the unit. With the Xyplex tool (figure 10) turn write-protection off (figure 11). Reinsert card.

24. Reboot the Xyplex again

```
Xyplex> set priv system
Xyplex>> init delay 0
```
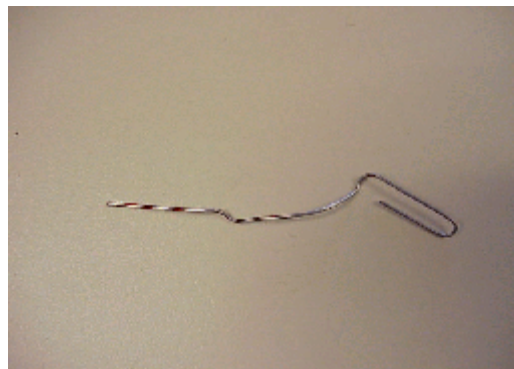

Figure 10

25. After the Console and Card lights on the front of the Xyplex have stopped flashing, pull the Xyplex card out of the front of the unit and with the Xyplex tool turn write-protection back on (figure 12). Reinsert card.

26. Attach a VGA monitor, mouse, and keyboard to the appropriate ports on the rear of the AX.

27. Power on the AX and observe the boot process.

28. Install the formed blank panel above the AX using the longer screws (provided). "Dress" the AX cables and power cord any other cables that were relocated during the installation

This completes the Archive Server Power Up Procedure

Figure 11

Figure 12

E. Archive Server Configuration Procedure

Perform the following procedure to install software and configure the AWIPS Linux AX. Follow these instructions after performing the procedures in sections A through D. Continue this section with a VGA monitor, mouse, and keyboard attached to the Archive Server.

When performing this section, be ready to complete the following information:

- Hostname site id

    - Used to set the Linux hostname and should be entered in lowercase

        Example: If the DS1 hostname is `ds1-abq`, the "hostname site id"* is **abq**.

- DS1 IP address

    - Obtained by logging on to DS1 and entering:

        grep ds1-*siteid* /etc/hosts

        where *siteid* is the hostname siteid.

- Default gateway IP address

    - obtained by logging on to DS1 and entering

        grep "ROUTE_GATEWAY\[0\]" /etc/rc.config.d/netconf

1. Log in to AX as **root**, (password = root) open a telnet session, and enter the following:

    cat /etc/redhat-release

    a. The system should respond with:

        Red Hat Linux release 7.2 (Enigma)

    b. If the above message appears, continue with this procedure. If any other message appears, do not proceed, and call the NCF.

2. Logged in to AX as **root**, change the AX root password to the AWIPS root password by typing:

    passwd

3. Create a directory by typing:

    mkdir /local/install

4. Mount the AX AWIPS Installation CD by placing the CD into the DVD/CD drive. When
    the /mnt/cdrom window appears, close it by selecting **File** then **Close window**.
    Open a telnet session and type:

    cd /mnt/cdrom/installation/system

5. Create a log output file and execute the script by typing:

    script -a /local/install/configureAX.out
    ./configureAX.sh
    passwd archiver
    exit

NOTE: While the script "configureAX.sh" is running, the monitor screen may flash and/or
             darken (go blank). If this happens, move the mouse to wake up the screen. The
             blank screen is caused by resetting the system clock.

---

6. Configure AX hostname/IP. Start a script output by typing:

    script -a /local/install/config-hostnameAX.out

7. As user **root**, type:

    cd /local/install
    ftp ds1 (login as **awipsusr**)
    ftp> **cd /tmp**
    ftp> **put config-hostnameAX.sh**
    ftp> **dir config-hostnameAX.sh** (to verify config-hostnameAX.sh is in /tmp on ds1)
    ftp> **quit**
    telnet ds1 (login as awipsusr)
    su - root
    cd /tmp
    chmod 500 config-hostnameAX.sh
    ./config-hostnameAX.sh

8. Once the "config-hostnameAX.sh" script finishes, remove the script by typing:

    rm config-hostnameAX.sh

    Then type:

    exit (exits out of root)
    exit (exits out of DS1 as awipsusr)
    exit (exits and saves script output)

9. Reboot the AX and observe any errors. Type:

    reboot

    Ignore any FAILED messages on "system shutdown." Once the system reboots, verify
    OK as each item is started on boot-up. Proceed to the next step if all start-up messages
    show OK.   For any FAILED messages contact the NCF. Dis

10. Log in to AX with the new root password, open a telnet session, and type:

    script -a /local/install/installAX.out

11. Mount the CDROM and change to the cdrom directory by typing: (When the
    /mnt/cdrom window pops up, close it by selecting **File** then **Close window**).

    mount -o exec /mnt/cdrom
    cd /mnt/cdrom/installation/application

12. Run the install script by typing:

    ./installAX.sh
    exit

13. Unmount the CDROM by typing:

    cd /
    umount /mnt/cdrom

    If umount fails, type:

    fuser -k /mnt/cdrom
    umount /mnt/cdrom

14. Remove CDROM from DVD/CD carriage.

15. If the PXs are installed, perform the following commands:

```
script –a /local/install/configure –Axmount.out
telnet ds1 (as root)
cd /home/awipsadm/install
./configure-AXmounts.sh
exit
su – archiver
Install.tcl
exit
exit
```

This completes the Archive server configuration procedure.

F. Console Port Configuration Procedure

This part configures the console port to enable AX access via the Xyplex.

1. Log on to the AX as **root** and edit the /etc/security/console.perms file changing the following line:

   ```
   <console>=tty[0-9][0-9]* vc/[0-9][0-9]* :[0-9]\.[0-9] :[0-9]
   ```

   to this:

   ```
   <console>=tty[0-9][0-9]* vc/[0-9][0-9]* :[0-9]\.[0-9] :[0-9] /dev/ttyS0
   ```

2. Add this entire line to the end of /etc/inittab file by typing:

   ```
   S0:2345:respawn:/sbin/agetty -L 9600 ttyS0 vt100
   ```

3. Add the following entry after the "message=…" line in the /etc/lilo.conf file:

   ```
   serial=0,9600n8
   ```

4. Add the following entry at the end of the file /etc/lilo.conf file:

   ```
   append="console=ttyS0,9600"
   ```

5. Add the following entry to the end of the /etc/securetty file:

   ```
   ttyS0
   ```

6. Run **/sbin/lilo** and reboot for changes to take effect. Ignore any duplicate entry messages.

This completes the console port configuration procedure

G. Verify/Update DVD Firmware Procedure

DVD drives shipped with many of the AXs may require a firmware update in order to avoid potential damage to the drives and discs. Perform the following procedure to determine the firmware revision and to update the firmware.

1. Verify Pioneer DVD firmware version by logging into AX as **root** and typing:

   grep PIONEER /var/log/dmesg | grep Rev

   A sample response is:

   Rev: 1.20

2. For any version numbers less than **1.32**, continue with the next step to upgrade the firmware.

3. Still logged in on AX as **root** type:

   cd /tmp
   ftp 165.92.25.15

   account: **ftp**
   password: **[email address]**

   ftp> **cd /pub**
   ftp> **bin**
   ftp> **hash**
   ftp> **get pioneer-boot.img**
   ftp> **get pioneer-firmware.img**
   ftp> **quit**

4. Perform a cksum on each image.

   ```
   cksum pioneer-boot.img
   ```

   Response: `1032880345 1468416 pioneer-boot.img`

   ```
   cksum pioneer-firmware.img
   ```

   Response: `3146820856 1474560 pioneer-firmware.img`

5. Place a blank, writeable diskette into the AX floppy drive and create a bootable floppy disk by typing:

   ```
   dd if=pioneer-boot.img of=/dev/fd0 bs=1440k
   ```

6. Remove the diskette, label it "**Pioneer Windows Boot,**" and store it in a safe location.

7. Place a new blank, writeable diskette into the AX floppy drive and create a diskette with the Pioneer firmware upgrade utility by typing:

   ```
   dd if=pioneer-firmware.img of=/dev/fd0 bs=1440k
   ```

8. Remove the diskette, label it "**Pioneer Firmware**," and store it in a safe location.

9. Remove the image files from AX by typing:

   ```
   rm -f /tmp/pioneer*.img
   ```

10. Insert the "Pioneer Windows Boot" diskette and reboot the AX by typing `reboot` .The AX will boot into Windows.

11. Once Windows is up and running, remove the "Windows Boot" diskette, follow the Windows prompt instructions, and insert the "Pioneer Firmware" diskette in drive A.

12. Run the firmware upgrade program:

    ```
    UPGDVD.EXE
    ```

13. Respond **Y** in response to the "`upgrade all drives?`" prompt.

14. The upgrade utility will automatically locate the Pioneer drive and install the upgraded firmware. This takes approximately one minute.

15. A message `Success to upgrade the firmware` appears once the firmware upgrade is complete. Remove the floppy disk from the archiver drive.

16. Reboot by pressing **<Ctrl-Alt-Delete>**.

17. After the AX has finished rebooting, log in as **root**.

18. Verify the new Pioneer firmware is loaded by typing:

    grep PIONEER /var/log/dmesg | grep Rev

19. The version number should display:

    Rev: 1.32

20. Log out of AX and disconnect the monitor, mouse, and keyboard.

This completes the DVD firmware Verify/Update procedure.

H. Archive Server Checkout Procedure

The following test verifies AX's capability to archive AWIPS data and is used to verify the AX is installed and configured correctly.   This test case is applicable to HP-UX and Linux workstations.

1. Test Steps and Expected Results

   a. Action: From the System Control Menu on an HP workstation, select **Data Archiver**.

   b. Action: Select **Select data to archive**.

      - Result: A AWIPS Archiver Setup GUI appears with a list of directories currently being backed up.

   c. Action: In the Setup GUI, add or delete some directories (e.g., remove the eastConus sat directory).

   d. Action: Select the **Save** button.

      - Result: A prompt appears asking if you want to save changes.

   e. Action: Select **Yes**.

   f. Action: Select the **Exit** button.

      - Result: A prompt appears asking: Are sure you want to exit.

g.   Action: Select **Yes**.

h.   Action: Wait 24 hours for data to back up.

i.   Action: From the System Control Menu, Select **Data Archiver**.

j.   Action: Select **Select dates to store**.

-    Result: An AWIPS Archive Compressor GUI appears.

k.   Action: In the Dates Available window, double click on a date listed.

l.   Action: Select the **Archive** button.

m   Action: Select **Yes**.

n.   Action: Select **No**.

o.   Action: After this completes, select **Burn to CD.**

-    Result: A CD Burner GUI appears.

p.   Action: In the CD Burner GUI, double click selected files in the Archived files window.

q.   Action: Select the **Create CD or DVD** button.

r.   Result: A window appears asking if the data can be deleted once the CD burning is complete.

s.   Action: Select **No**.

-    Result: A window appears asking, **Please Insert a blank recordable CD/DVD**.

t.   Action: Insert a blank CD into the DVD/CD drive on the AX.

u.   Action: Select OK.

v.   Action: Wait approximately 15 minutes for the burn to complete. The burn is complete when a splash screen appears stating the burn was successful.

w.   Action: Select **Exit**.

-    Result: An **Are you sure?** prompt window appears.

x.   Action: Select **Yes**.

   y.   Action: Select **Exit** in the remaining GUI.

       -   Result: An **Are you sure?** prompt window appears.

   z.   Action: Select **Yes**.

  aa.   Action: Review the CD to ensure the correct data was copied.

  bb.   Action: Repeat the test, by burning a DVD.

  cc.   Action: Repeat the test on a Linux workstation.

This completes the archive server checkout procedure.

MAINTENANCE REPORTING

Report the completed hardware and software installation using the Engineering Management Reporting System (EMRS) according to the instructions in the NWS Instruction 30-2104, Maintenance Documentation, Part 4, and Appendix F. A sample EMRS report is included as Attachment A. As an additional guide, use the information in the table below.

Block #	Block Type	Information
5	Description	AWIPS Archive Server Installation
7	Equipment Code	AWIPS
8	Serial Number	001
15	Comments	Installed Archive Server and software I.A.W. AWIPS Mod Note 9
17a	Mod. No.	9

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Attachment A - EMRS Report Sample

Attachment A - EMRS Report Sample